

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1-3. (canceled).

4. (currently amended): A propulsion device comprising:

an injection chamber for at least one propellant fluid, said injection chamber disposed upstream from a gas injection nozzle;

an inductive coil having at least one loop and surrounding a zone of the injection nozzle to heat the ejected gases by induction; and

a high frequency electricity generator providing power to said inductive coil with alternating current, said power being transformed into heat in the ejected gas by induction, said heat generating added thrust by gas expansion in a diverging section of said nozzle disposed downstream of said inductive coil,

4. A device according to claim 14, wherein at least one of said propellant fluids feeds at least a first heat exchanger for cooling the electricity generator.

5. (currently amended): A propulsion device comprising:
an injection chamber for at least one propellant fluid, said injection chamber disposed upstream from a gas injection nozzle;
an inductive coil having at least one loop and surrounding a zone of the injection nozzle to heat the ejected gases by induction; and
a high frequency electricity generator providing power to said inductive coil with alternating current, said power being transformed into heat in the ejected gas by induction, said heat generating added thrust by gas expansion in a diverging section of said nozzle disposed downstream of said inductive coil.
- ~~A device according to claim 14,~~ wherein the injection chamber has a first inlet for a first propellant fluid, and a second inlet for a second propellant fluid which enters into the injection chamber and reacts chemically to produce heat.
6. (previously presented): A device according to claim 5, having a nuclear core which constitutes a heat source for a heat engine which is coupled to the electricity generator, and wherein at least one of said propellant fluids is supplied in cryogenic form and passes through at least a second heat exchanger to constitute a heat sink for the heat engine.
7. (previously presented): A device according to claim 6, wherein at least one of said propellant fluids feeds at least a third heat exchanger which is heated by said nuclear core and which is disposed downstream from said second heat exchanger.

8. (previously presented): A device according to claim 6, wherein the heat engine drives at least one pump for circulating and pressurizing at least one of said propellant fluids.

9-14. (canceled).